

Amendments to the Abstract

Please replace the Abstract on page 417, line 3, with the following rewritten paragraph.

Disclosed herein are novel coatings and paints comprising a biomolecule composition which includes a proteinaceous material configured to bind to and detoxify one or more chemicals which are toxic to humans. The one or more chemicals include organophosphorus compounds, such as pesticides and chemical warfare agents. In some cases, wherein the biomolecule composition comprises may include an enzyme and, in some embodiments, may specifically include a phosphoric triester hydrolase. The biomolecule composition may be configured to retain binding activity after being admixed with coating components to form the coating and, in some cases, may be configured to exhibit said binding activity in the coating at one or more instances after the surface treatment has been formed with the proteinaceous material for greater than approximately 1 week. The coatings and paints may be used prophylactically or may be applied subsequent to chemical exposure. Also disclosed herein are methods of detoxification of a surface contaminated with an organophosphorus compound by contacting the surface with such a coating or paint. Also disclosed herein are novel coating and paint components derived from microorganisms.